

| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|---|---|------------------|
| - | 0 | (download\$5 stor\$5) with (facial\$6 (complex\$5 near image\$5)) with client\$5 with (rom (non-volatile\$5)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/08 17:23 |
| - | 2 | (download\$5 stor\$5) same (facial\$6 (complex\$5 near image\$5)) same client\$5 same (rom (non-volatile\$5)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/08 17:34 |
| - | 2 | (download\$5 stor\$5 render\$6) same (facial\$6 (complex\$5 near image\$5)) same client\$5 same (rom (non-volatile\$5)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/08 17:35 |
| - | 82 | (download\$5 stor\$5 render\$6) same (facial\$6 (complex\$5 near image\$5)) same (rom (non-volatile\$5)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/08 17:47 |
| - | 43 | ((download\$5 stor\$5 render\$6) same (facial\$6 (complex\$5 near image\$5)) same (rom (non-volatile\$5))) and @ad<19990611 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/08 17:37 |
| - | 14 | ((download\$5 stor\$5 render\$6) same (facial\$6 (complex\$5 near image\$5)) same (rom (non-volatile\$5))) and @ad<19990611 and (network\$5 internet\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/08 17:48 |
| - | 1 | ("4712103").PN. | USPAT | 2004/10/08 17:44 |
| - | 0 | ((("4712103").PN.) and (network\$5 internet\$5 client\$5) | USPAT | 2004/10/08 17:46 |
| - | 1 | 5432864.pn. and (network\$5 internet\$5 client\$5) | USPAT | 2004/10/08 17:46 |
| - | 731 | (download\$5 stor\$5 render\$6) same (facial\$6 (complex\$5 near image\$5)) same (rom memor\$9 (non-volatile\$5)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/08 17:48 |
| - | 310 | (download\$5 stor\$5 render\$6) with (facial\$6 (complex\$5 near image\$5)) with (rom memor\$9 (non-volatile\$5)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/08 17:48 |
| - | 43 | ((download\$5 stor\$5 render\$6) with (facial\$6 (complex\$5 near image\$5)) with (rom memor\$9 (non-volatile\$5))) and @ad<19990611 and (network\$5 internet\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/08 17:48 |

| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|--|---|------------------|
| - | 1511 | download\$5 near9 image\$6 near9 (client\$5 server\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/14 17:11 |
| - | 236 | download\$5 near9 image\$6 near9 (client\$5 with server\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:03 |
| - | 282 | (download\$5 near9 image\$6 near9 (client\$5 server\$5)) and @ad<19990611 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:03 |
| - | 23 | (download\$5 with stor\$5) near9 image\$6 near9 (client\$5 with server\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:04 |
| - | 8 | ((download\$5 with stor\$5) near9 image\$6 near9 (client\$5 with server\$5)) and @ad<19990611 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:13 |
| - | 7 | ((download\$5 with stor\$5) near9 image\$6 near9 (client\$5 with server\$5)) and @ad<19990611 and (client near9 stor\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:15 |
| - | 0 | ((download\$5 with stor\$5) near9 image\$6 near9 (client\$5 with server\$5)) and @ad<19990611 and (client near9 stor\$5) and (non-volatile\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:15 |
| - | 2 | ((download\$5 with stor\$5) near9 image\$6 near9 (client\$5 with server\$5)) and @ad<19990611 and (client near9 stor\$5) and (non-volatile\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:15 |
| - | 0 | ((download\$5 with stor\$5) near9 image\$6 near9 (client\$5 with server\$5)) and @ad<19990611 and (client near9 stor\$5) and (permant\$9) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:16 |
| - | 0 | ((download\$5 with stor\$5) near9 image\$6 near9 (client\$5 with server\$5)) and @ad<19990611 and (client near9 stor\$5) and (permanent\$9) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:16 |
| - | 0 | ((download\$5 with stor\$5) near9 image\$6 near9 (client\$5 with server\$5)) and @ad<19990611 and (client near9 stor\$5) and (permanent\$9) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:17 |
| - | 2 | ((download\$5 with stor\$5) near9 image\$6 near9 (client\$5 with server\$5)) and @ad<19990611 and (client near9 stor\$5) and (rom) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:18 |
| - | 6 | ((download\$5 with stor\$5) near9 image\$6 near9 (client\$5 with server\$5)) and @ad<19990611 and (client near9 stor\$5) and memor\$9 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:22 |
| - | 31 | (client\$5 near9 stor\$6 near9 (non-volatile\$5 rom) near9 image\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/12 14:20 |

| | | | | |
|---|---|---|---|------------------|
| - | 7 | ((client\$5 near9 stor\$6 near9 (non-volatil\$5 rom) near9 image\$5)) and @ad<19990611 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/10/12 14:20 |
| - | 3 | ((download\$5 with stor\$5) near9 image\$6 near9 (client\$5 with server\$5)) and @ad<19990611 and (client near9 stor\$5) and (hard adj (disk\$5 driv\$5)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/10/12 15:31 |
| - | 1 | ("6396842").PN. | USPAT | 2004/10/12 15:32 |

| Set | Items | Description |
|-----|---------|---|
| S1 | 122783 | (NONVOLATILE OR FLASH) (2N) (MEMORY OR ROM OR CHIP? OR CARD?) OR FIRMWARE OR FIRM()WARE OR ROM OR READ()ONLY()MEMORY OR PR- OM OR EPROM OR EEPROM OR (NONVOLATILE OR FLASH) (2N) (MEMORY OR ROM OR CHIP? OR CARD?) OR COMPACTFLASH OR SMARTMEDIA |
| S2 | 740756 | CLIENT? OR PERSONAL()COMPUTER? OR STAND()ALONE? OR STANDAL- ONE? OR PC OR WORKSTATION? OR WORK()STATION? OR PROCESSOR? OR NODE? OR SERVER? OR PROCESSOR? |
| S3 | 2179793 | STORE? ? OR STORING OR SAVE OR SAVING OR KEEP? ? OR KEEPING OR MEMORY OR CACHE? |
| S4 | 8112 | (COMPLEX OR COMPOSITE OR COMPOUND) (2N) (IMAGE? OR PICTURE? - OR GRAPHIC? OR FACIAL OR BIOMETRIC OR BIO()METRIC OR FACE) |
| S5 | 352095 | IDENTITY OR IDENTIF? OR ATTRIBUTE? |
| S6 | 0 | S1 AND S2 AND S3 AND S4 AND S5 |
| S7 | 4 | S1 AND S3 AND S4 AND S5 |
| S8 | 62 | S1 AND S3 AND S4 |
| S9 | 16 | S8 AND S2 |
| S10 | 20 | S7 OR S9 |
| S11 | 9 | S10 AND IC=G06F? |
| S12 | 0 | (NONVOLATILE OR NON()VOLATILE) AND (CLIENT? OR NODE? OR SE- RVER? OR PROCESSOR?) AND COMPLEX()IMAGE? AND IDENTITY |
| S13 | 0 | (NONVOLATILE()NON()VOLATILE) ()MEMORY AND COMPLEX()IMAGE? A- ND (IDENTITY OR IDENTIF? OR ATTRIBUTE?) |

File 347:JAPIO Nov 1976-2004/May(Updated 040903)
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200457
(c) 2004 Thomson Derwent

11/5/1 (Item 1 from file: 347)
DIALOG(R) File 347: JAPIO
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05319480 **Image available**
COMPOSITE IMAGE PROCESSING UNIT

PUB. NO.: 08-274980 [JP 8274980 A]
PUBLISHED: October 18, 1996 (19961018)
INVENTOR(s): YAMAMOTO MASAHITO
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 07-077608 [JP 9577608]
FILED: April 03, 1995 (19950403)
INTL CLASS: [6] H04N-001/387; B41J-021/00; **G06F-003/12**; G06T-003/60;
G06K-009/20
JAPIO CLASS: 29.4 (PRECISION INSTRUMENTS -- Business Machines); 45.3
(INFORMATION PROCESSING -- Input Output Units); 45.9
(INFORMATION PROCESSING -- Other)
JAPIO KEYWORD: R002 (LASERS); R098 (ELECTRONIC MATERIALS -- Charge Transfer
Elements, CCD & BBD)

ABSTRACT

PURPOSE: To attain an image output in a proper direction without special notification of an upside and a down side of an original by applying rotation control to original image data based on the result of character recognition.

CONSTITUTION: Upper/lower/left.right sides of image data **stored** in an image **memory** 602 are respectively supposed to be an upper side of an image and a recognition rate P_{di} being a recognition result is obtained by a character recognition section 605. A maximum recognition rate among four P_{di} values is obtained as a maximum recognition rate P. When the recognition rate P does not exceeds a specified recognition rate, the processing is finished without any rotation processing. However, when the value P is larger than a lower limit of a valid recognition rate, the estimated paper direction D_i is estimated to be a direction (i) in which the value P is obtained. Then input output **attributes** AI, AO of image data are inquired of an image data source 601 and an image data output destination 604. A required correction rotating angle is calculated by a rule table **stored** in a **nonvolatile memory** in a CPU based on the direction D_i and the **attributes** AI, AO. Then the correction rotating angle is used for a parameter of a rotation section 603 and then the processing is finished.

11/5/6 (Item 5 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013179957 **Image available**
WPI Acc No: 2000-351830/200031
XRPX Acc No: N00-263571

Self dimensioning demonstration page for printing by printers of whatever kind, has one image stored in ROM with appropriate scaling factors depending on the size of print media used, therefore reducing the amount of ROM needed

Patent Assignee: HEWLETT-PACKARD CO (HEWP); HEWLETT-PACKARD DEV CO LP
(HEWP)

Inventor: BARRASH K K; WATTS B L

Number of Countries: 003 Number of Patents: 004

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|-------------|------|----------|----------|
| DE 19944504 | A1 | 20000504 | DE 1044504 | A | 19990916 | 200031 B |
| JP 2000138827 | A | 20000516 | JP 99304301 | A | 19991026 | 200032 |
| US 6559971 | B1 | 20030506 | US 98181032 | A | 19981027 | 200338 |
| DE 19944504 | B4 | 20040408 | DE 1044504 | A | 19990916 | 200425 |

Priority Applications (No Type Date): US 98181032 A 19981027

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---------------|------|-----|----|--------------|--------------|
| DE 19944504 | A1 | | 10 | G06K-015/02 | |
| JP 2000138827 | A | | 9 | H04N-001/393 | |
| US 6559971 | B1 | | | G06K-015/00 | |
| DE 19944504 | B4 | | | G06K-015/02 | |

Abstract (Basic): DE 19944504 A1

NOVELTY - Image generation device has a printer (10) and image data (60) that is read by the printer. The image data contains instructions for the automatic dimensioning of the image data so that it fits a selectable media size (75) which the printer is currently using.

USE - Laser, inkjet or any other printing devices have a facility to print demonstration pages without being connected to a PC etc. Typically this is achieved by pressing a special key combination or selecting a menu choice. The demonstration image prints on whatever size media the printer has available.

ADVANTAGE - Existing devices contain images matched to the available media sizes. As images become more complex the amount of read only memory required for a number of images is quite substantial. The invention stores only one image with appropriate scaling instructions to fit different media sizes resulting in reduction in ROM required and corresponding cost savings.

DESCRIPTION OF DRAWING(S) - Figure shows a block diagram of a printer device

printer device (10)

ROM containing demonstration page data amongst other data (65)

printer (30)

media size selected (75)

pp; 10 DwgNo 1/6

Title Terms: SELF; DIMENSION; DEMONSTRATE; PAGE; PRINT; PRINT; KIND; ONE;

IMAGE; STORAGE; ROM; APPROPRIATE; SCALE; FACTOR; DEPEND; SIZE; PRINT;

MEDIUM; REDUCE; AMOUNT; ROM; NEED

Derwent Class: T01; T04

International Patent Class (Main): G06K-015/00; G06K-015/02; H04N-001/393

International Patent Class (Additional): B41J-021/00; G06F-003/12 ;

G06T-003/40

File Segment: EPI

11/5/7 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012370844 **Image available**

WPI Acc No: 1999-176951/199915

XRPX Acc No: N99-130465

Image processor for e.g. printer - has controller which controls storage of synthesized expanded image data, compressed by compression unit, and image data, formed by development unit, in ROM

Patent Assignee: CANON KK (CANO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|-------------|------|----------|----------|
| JP 11031056 | A | 19990202 | JP 97185480 | A | 19970710 | 199915 B |

Priority Applications (No Type Date): JP 97185480 A 19970710

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-------------|------|-----|----|-------------|--------------|
| JP 11031056 | A | | 13 | G06F-003/12 | |

Abstract (Basic): JP 11031056 A

NOVELTY - A controller controls a compression unit to compress the synthesized expanded image data and the image data formed by a development unit, for storage into a ROM (102). DETAILED DESCRIPTION

- The **processor** has a development unit which forms image data for every patterning unit, based on the image data **stored** in a band **memory** area (112,113). A compression unit compresses the formed image data. An expansion unit expands the compressed image data. INDEPENDENT CLAIMS are also included for the following: an image processing method; and a **memory** medium.

USE - For e.g. printer.

ADVANTAGE - Increases efficiency for accessing compressed image data from **memory** by providing controller which controls compression unit to compress **compound image** data. Ensures quick expansion processing of image data. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of a printer system. (102) **ROM**; (112,113) Band **memory** area.

Dwg.1/9

Title Terms: IMAGE; **PROCESSOR**; PRINT; CONTROL; CONTROL; STORAGE; EXPAND;

IMAGE; DATA; COMPRESS; UNIT; IMAGE; DATA; FORMING; DEVELOP; UNIT; **ROM**

Derwent Class: P75; T01; W02

International Patent Class (Main): **G06F-003/12**

International Patent Class (Additional): B41J-005/30; H04N-001/21

File Segment: EPI; EngPI

11/5/8 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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007500422 **Image available**

WPI Acc No: 1988-134355/198820

XRPX Acc No: N88-102254

Image reader with head able to scan document - has control writing image data into memory and printer

Patent Assignee: SHARP KK (SHAF)

Inventor: TSUJIOKA H; YATSUZUKA Y; YONEDA S

Number of Countries: 005 Number of Patents: 010

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|-------------|------|----------|----------|
| EP 267456 | A | 19880518 | EP 87115141 | A | 19871016 | 198820 B |
| JP 63100865 | A | 19880502 | JP 86246700 | A | 19861016 | 198823 |
| JP 63102466 | A | 19880507 | JP 86248140 | A | 19861017 | 198824 |
| JP 63103558 | A | 19880509 | JP 86250407 | A | 19861020 | 198824 |
| JP 63103563 | A | 19880509 | JP 86249829 | A | 19861020 | 198824 |
| JP 63103565 | A | 19880509 | JP 86250408 | A | 19861020 | 198824 |
| JP 63103566 | A | 19880509 | JP 86249840 | A | 19861020 | 198824 |
| US 4901163 | A | 19900213 | US 87108993 | A | 19871016 | 199013 |
| EP 267456 | B1 | 19920909 | EP 87115141 | A | 19871016 | 199237 |
| DE 3781640 | G | 19921015 | DE 3781640 | A | 19871016 | 199243 |
| | | | EP 87115141 | A | 19871016 | |

Priority Applications (No Type Date): JP 86250408 A 19861020; JP 86246700 A 19861016; JP 86248140 A 19861017; JP 86249829 A 19861020; JP 86249840 A 19861020; JP 86250407 A 19861020

Cited Patents: A3...8921; DE 3601323; EP 16299; EP 168256; EP 180181; FR 2250245; No-SR.Pub

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 267456 A E 23

Designated States (Regional): DE FR GB

US 4901163 A 22

EP 267456 B1 E 25 H04N-001/04

Designated States (Regional): DE FR GB

DE 3781640 G H04N-001/04 Based on patent EP 267456

Abstract (Basic): EP 267456 A

The image reader of manual scan type comprises an image reading appts. (1) for reading an image of a document (2) including character image, figure image and/or picture image and a main body (3) for processing image data transmitted from the reading appts. A circular

plate (7) has slit-like apertures for detecting the rotation of a pulley (6) or similar rotatable means. A photo-interruptor (8) generates electric pulses corresp. to respective apertures.

The main body (3) contains a controller (10), a RAM (11) and a printer (12). The controller provides a CPU (13), a ROM (14) and a switch group (15). The latter comprises an on-off switch (15a), an enlargement mode selector (15b), graphic or word mode selector (15c), a repeat switch (15d), clear switch (15e) for the RAM, image entry switch (15f) and lay-out switch (15g).

ADVANTAGE - Can adjust image data to form only real and necessary image data. Capable of **composite image** data without any shift between two image data obtained by successive scans. Memorises data only if reading head has been moved.

Title Terms: IMAGE; READ; HEAD; ABLE; SCAN; DOCUMENT; CONTROL; WRITING;

IMAGE; DATA; **MEMORY** ; PRINT

Derwent Class: S06; T01; W02

International Patent Class (Main): H04N-001/04

International Patent Class (Additional): **G06F-015/66** ; H04N-001/10

File Segment: EPI

11/5/9 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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004579780

WPI Acc No: 1986-083124/198613

XRPX Acc No: N86-060750

Computer colour display system for text and graphics - has red green and blue bit map memories, pattern ROM , character generator and control microprocessor

Patent Assignee: HONEYWELL INFORM SYSTEMS INC (HONE)

Inventor: BRUCE K E; HOLTEY T O

Number of Countries: 016 Number of Patents: 011

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|------------|------|----------|-------------|------|----------|--------|---|
| EP 175340 | A | 19860326 | EP 85111731 | A | 19850917 | 198613 | B |
| AU 8547521 | A | 19860327 | | | | 198620 | |
| NO 8503633 | A | 19860414 | | | | 198622 | |
| DK 8504218 | A | 19860318 | | | | 198624 | |
| FI 8503550 | A | 19860318 | | | | 198633 | |
| ES 8708077 | A | 19871116 | ES 547008 | A | 19850916 | 198751 | |
| US 4724431 | A | 19880209 | US 84650941 | A | 19840917 | 198809 | |
| CN 8507554 | A | 19870415 | | | | 198827 | |
| CA 1249677 | A | 19890131 | | | | 198912 | |
| EP 175340 | B | 19910612 | | | | 199124 | |
| DE 3583196 | G | 19910718 | | | | 199130 | |

Priority Applications (No Type Date): US 84650941 A 19840917

Cited Patents: A3...8720; EP 108516; No-SR.Pub; WO 8302509; NoSR.Pub

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 175340 A E 14

Designated States (Regional): CH DE FR GB IT LI NL SE

EP 175340 B

Designated States (Regional): CH DE FR GB IT LI NL SE

Abstract (Basic): EP 175340 B

Each bit map RAM (101-103) **stores** graphics image data for a 720 by 300 pixels screen image in eight 64K by one DRAM. Control signals from a mode control register (18) are applied to select a required display pattern from a **ROM** (16) **storing** e.g. diagonal lines, dotted areas. The bit map **memory** planes (101-103) are addressed through a multiplexer (4) from a row address/column address selector (6) or from an interface address device (23).

Data from the bit map planes are buffered (104-109) and serialised in shift registers (110-112) before being applied to a text mix **PROM**

(123). Text data to be displayed are read from a RAM (115) into a character generator (119) of which the output is supplied to the text mix **PROM** (123).

ADVANTAGE - Graphics and text are displayed in different colours and colours additional to those of bit map memories are derived by combining signals from those bit maps. (14pp Dwg.No.1/3

Title Terms: COMPUTER; COLOUR; DISPLAY; SYSTEM; TEXT; GRAPHIC; RED; GREEN; BLUE; BIT; MAP; **MEMORY** ; PATTERN; **ROM** ; CHARACTER; GENERATOR; CONTROL; MICROPROCESSOR

Derwent Class: P85; T04

International Patent Class (Additional): **G06F-003/15** ; G09G-001/28

File Segment: EPI; EngPI

| Set | Items | Description |
|------|--|--|
| S1 | 258854 | (NONVOLATILE OR FLASH) (2N) (MEMORY OR ROM OR CHIP? OR CARD?) OR FIRMWARE OR FIRM()WARE OR ROM OR READ()ONLY()MEMORY OR PROM OR EPROM OR EEPROM OR (NONVOLATILE OR FLASH) (2N) (MEMORY OR ROM OR CHIP? OR CARD?) OR COMPACTFLASH OR SMARTMEDIA |
| S2 | 2272776 | CLIENT? OR PERSONAL()COMPUTER? OR STAND()ALONE? OR STANDALONE? OR PC OR WORKSTATION? OR WORK()STATION? OR PROCESSOR? OR NODE? OR SERVER? OR PROCESSOR? |
| S3 | 2083409 | STORE? ? OR STORING OR SAVE OR SAVING OR KEEP? ? OR KEEPING OR MEMORY OR CACHE? |
| S4 | 21756 | (COMPLEX OR COMPOSITE OR COMPOUND) (2N) (IMAGE? OR PICTURE? - OR GRAPHIC? OR FACIAL OR BIOMETRIC OR BIO()METRIC OR FACE) |
| S5 | 3798702 | IDENTITY OR IDENTIF? OR ATTRIBUTE? |
| S6 | 0 | S1 (S) S2 (S) S3 (S) S4 (S) S5 |
| S7 | 3 | S1 (S) S3 (S) S4 (S) S5 |
| S8 | 36 | S1 (S) S3 (S) S4 |
| S9 | 12 | S8 (S) S2 |
| S10 | 36 | S7 OR S8 OR S9 |
| S11 | 34 | S10 NOT PY>1999 |
| S12 | 33 | S11 NOT PD>19990611 |
| S13 | 32 | RD (unique items) |
| File | 2:INSPEC 1969-2004/Aug W5 | (c) 2004 Institution of Electrical Engineers |
| File | 6:NTIS 1964-2004/Aug W4 | (c) 2004 NTIS, Intl Cpyrght All Rights Res |
| File | 8:Ei Compendex(R) 1970-2004/Aug W5 | (c) 2004 Elsevier Eng. Info. Inc. |
| File | 34:SciSearch(R) Cited Ref Sci 1990-2004/Sep W1 | (c) 2004 Inst for Sci. Info. |
| File | 35:Dissertation Abs Online 1861-2004/Aug | (c) 2004 ProQuest Info&Learning |
| File | 65:Inside Conferences 1993-2004/Sep W1 | (c) 2004 BLDSC all rts. reserv. |
| File | 92:IHS Intl.Stds.& Specs. 1999/Nov | (c) 1999 Information Handling Services |
| File | 94:JICST-EPlus 1985-2004/Aug W2 | (c)2004 Japan Science and Tech Corp(JST) |
| File | 95:TEME-Technology & Management 1989-2004/Jun W1 | (c) 2004 FIZ TECHNIK |
| File | 99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul | (c) 2004 The HW Wilson Co. |
| File | 103:Energy SciTec 1974-2004/Aug B2 | (c) 2004 Contains copyrighted material |
| File | 144:Pascal 1973-2004/Aug W5 | (c) 2004 INIST/CNRS |
| File | 202:Info. Sci. & Tech. Abs. 1966-2004/Sep 09 | (c) 2004 EBSCO Publishing |
| File | 233:Internet & Personal Comp. Abs. 1981-2003/Sep | (c) 2003 EBSCO Pub. |
| File | 239:Mathsci 1940-2004/Oct | (c) 2004 American Mathematical Society |
| File | 275:Gale Group Computer DB(TM) 1983-2004/Sep 09 | (c) 2004 The Gale Group |
| File | 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec | (c) 1998 Inst for Sci Info |
| File | 647:CMP Computer Fulltext 1988-2004/Aug W5 | (c) 2004 CMP Media, LLC |
| File | 674:Computer News Fulltext 1989-2004/Aug W3 | (c) 2004 IDG Communications |
| File | 696:DIALOG Telecom. Newsletters 1995-2004/Sep 08 | (c) 2004 The Dialog Corp. |

13/5/1 (Item 1 from file: 2)
DIALOG(R) File 2:INSPEC
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5999049 INSPEC Abstract Number: B9809-1285-019

Title: 1.5 TXPS convolver using 5b analog flash for real-time large-kernel image filtering

Author(s): Kramer, A.; Fabbrizio, V.; Mariaud, X.; Raynal, F.
Author Affiliation: SGS-Thomson Microelectron., Berkeley, CA, USA
Conference Title: 1998 IEEE International Solid-State Circuits Conference. Digest of Technical Papers, ISSCC. First Edition (Cat. No.98CH36156) p.196-7, 437
Editor(s): Wuorinen, J.H.
Publisher: IEEE, New York, NY, USA
Publication Date: 1998 Country of Publication: USA 504 pp.
ISBN: 0 7803 4344 1 Material Identity Number: XX98-01042
U.S. Copyright Clearance Center Code: 0 7803 4344 1/98/\$10.00
Conference Title: 1998 IEEE International Solid-State Circuits Conference. Digest of Technical Papers. ISSCC
Conference Sponsor: IEEE Solid-State Circuits Soc.; IEEE San Francisco Sect.; Bay Area Council; Univ. Pennsylvania
Conference Date: 5-7 Feb. 1998 Conference Location: San Francisco, CA, USA

Language: English Document Type: Conference Paper (PA)
Treatment: Practical (P); Experimental (X)
Abstract: An analog convolution chip for real-time image filtering with large convolution kernels accepts 2k 1b inputs that can be configured as 2-D sub-images of different sizes and depths, from 64*32*1b to 12*32*5b. 256 kernels of 2k values each are **stored** in an analog Flash- **EEPROM** array. Each kernel element (synapse) consists of 6 bits (5 bits + sign) **stored** as 5b analog values on a pair of Flash- **EEPROM** devices. The chip maintains 3 MHz throughput, corresponding to 1.5 TCPS. Convolution with large 2-D kernels allows **complex image** features to be detected directly, increasing system throughput. The chip is programmed with kernels able to detect road lines (boundaries) and is able to filter road images at video rates (15 Frames/s). (2 Refs)

Subfile: B

Descriptors: analogue processing circuits; analogue storage; convolution; EPROM; image processing

Identifiers: 1.5 TXPS convolver; real-time large-kernel image filtering; analog convolution chip; flash EEPROM array; 5 bit; 3 MHz

Class Codes: B1285 (Analogue processing circuits); B6140C (Optical information, image and video signal processing)

Numerical Indexing: word length 5.0E+00 bit; frequency 3.0E+06 Hz
Copyright 1998, IEE

13/5/2 (Item 2 from file: 2)
DIALOG(R) File 2:INSPEC
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01564369 INSPEC Abstract Number: C80025591

Title: Computer architectures for vision

Author(s): Reddy, D.R.; Hon, R.W.
Author Affiliation: Carnegie-Mellon Univ., Pittsburgh, PA, USA
Conference Title: Computer Vision and Sensor-based Robots p.169-86
Editor(s): Dodd, G.G.; Rossol, L.
Publisher: Plenum, New York, NY, USA
Publication Date: 1979 Country of Publication: USA ix+353 pp.
ISBN: 0 306 40305 6
Conference Date: 25-26 Sept. 1978 Conference Location: Warren, MI, USA
Language: English Document Type: Conference Paper (PA)
Treatment: Applications (A)

Abstract: It is estimated that systems capable of executing 1 to 100 billion operations per second will be required to achieve near-real time performance in image analysis tasks. The authors present three aspects of architecture for realizing economical solutions to this problem. At the

processor - **memory** - **switch** (PMS) level, the authors consider parallel and pipeline architectures using multiprocessor and array **processor** systems. At the instruction-set- **processor** (ISP) level, they consider the **firmware** implementation of special instruction sets for image processing. At the **processor** design level, they consider the design of complex arithmetic-logic-units (ALU) for execution of **complex image** operations. Given these alternative aspects, they present hardware and software design considerations affecting the overall architecture. Together, they appear to hold the promise of several orders of magnitude improvement in speed over general purpose systems. (23 Refs)

Subfile: B C

Descriptors: computer architecture; general purpose computers; microprogramming; parallel processing; picture processing; pipeline processing

Identifiers: vision; image analysis; pipeline architectures; multiprocessor; array processor systems; firmware; image processing; general purpose systems; parallel architectures; computer architecture

Class Codes: B6140C (Optical information processing); C1250 (Pattern recognition); C5220 (Computer architecture); C5420 (Mainframes and minicomputers)

13/5/3 (Item 1 from file: 6)

DIALOG(R) File 6:NTIS

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1562451 NTIS Accession Number: DE91004831

CD-ROM: A delivery medium for CBT

Luettggen, A. L. ; Houghton, F. K. ; Andrews, A. E.

Los Alamos National Lab., NM.

Corp. Source Codes: 072735000; 9512470

Sponsor: Department of Energy, Washington, DC.

Report No.: LA-UR-90-3784; CONF-910371-2

1991 30p

Languages: English Document Type: Conference proceeding

Journal Announcement: GRAI9110; ERA9121

TITE '91: 9th annual technology and innovations in training and education conference, San Antonio, TX (USA), 11-15 Mar 1991. Sponsored by Department of Energy, Washington, DC.

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NTIS Prices: PC A03/MF A01

Country of Publication: United States

Contract No.: W-7405-ENG-36

Computer-based training (CBT) development has evolved from electronic page turners to a sophisticated instructional environment. The use of numerous large image files, large digital audio files, and complex computer-generated graphics files places great demands on a system's capacity for binary storage (disk space). One solution is the use of compact disc- **read only memory** (CD- **ROM**). The explosive growth of CD- **ROM** players in the marketplace makes CD- **ROM** a viable delivery medium for CBT. Recently, a CBT package for radiation protection technicians at Los Alamos National Laboratory was produced on CD- **ROM** . The course is delivered on a multimedia system consisting of the following: MS DOS-based computer, CD- **ROM** player, high-resolution video graphics array monitor, scanned color images with graphic overlays, digital audio, and mouse interface. This paper will allow the reader to assess the appropriateness of CD- **ROM** for a specific project, report on lessons learned from the RPT project, demonstrate that CD- **ROM** is within reach of the average CBT developer, and provide guidelines for successfully developing CD- **ROM** based CBT. This paper can serve as a basic primer on how to adapt CD- **ROM** as a CBT medium. Some of the technical aspects that are discussed are listed here: CD- **ROM** basics for CBT development, availability of low-cost development environments, file organization, optimization of CD- **ROM** response times, effective use of digital audio and still frame graphics,

and animation with CD- ROM.

Descriptors: *Memory Devices; *Computer-Aided Instruction; Computer Architecture; Computer Graphics; Computer Output Devices; Cost; Training

Identifiers: *CD-ROM; EDB/990200; NTISDE

Section Headings: 92A (Behavior and Society--Job Training and Career Development); 92D (Behavior and Society--Education, Law, and Humanities); 62A (Computers, Control, and Information Theory--Computer Hardware)

13/5/4 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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1326986 NTIS Accession Number: AD-D013 087/2

Video Multiplexer

(Patent)

Keller, P. N. ; Seal, C. D.

Department of the Navy, Washington, DC.

Corp. Source Codes: 001840000; 110050

Report No.: PAT-APPL-6-489 987; PATENT-4 517 593

Filed 29 Apr 83 patented 14 May 85 12p

Languages: English Document Type: Patent

Journal Announcement: GRAI8724

Supersedes PAT-APPL-6-489 987.

This Government-owned invention available for U.S. licensing and, possibly, for foreign licensing. Copy of patent available Commissioner of Patents, Washington, DC 20231 \$1.50.

NTIS Prices: Not available NTIS

Country of Publication: United States

An event scoring using a video mulitplexer and method are created by using a plurality of video cameras to cover limited fields of view of a given area. The cameras are distributed to cover the area. The video output of the cameras is used as input to a video multiplex circuit which multiplexes the camera video signals to form a composite signal containing the desirable information from each camera and generated the sync signal for the slave camera. By counting horizontal lines of video and video sync levels, selected lines of video are combined to form a composite video **image**. The **composite video image** permits both a target and a strike event to be recorded in a least two locations within the composite video. A scoring systems inputs the multiplexer output to determine the miss distance and direction from the target. A programmable **read only memory** permits one of the camera video inputs to be a gray level which is inserted between consecutive camera lines of actual real time video signal. These gray level stripes provide ease in **identifying** which horizontal lines are producing a given effect. (Patent)

Descriptors: *Patents; *Video signals; *Multiplexing; *Television cameras ; Cameras; Circuits; Composite images; Computer programming; Distribution; Gray scale; Miss distance; Output; Position(Location); Read only memories; Real time; Scoring; Signals; Stripes

Identifiers: PAT-CL-358-107; NTISGPN

Section Headings: 45B (Communication--Radio and Television Equipment); 90F (Government Inventions For Licensing--Electrotechnology)

13/5/5 (Item 1 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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03472577 E.I. Monthly No: EIM9208-041900

Title: Fractal image compression for mass storage applications.

Author: Fisher, Yuval; Lawrence, Albert F.

Corporate Source: Univ. of California/San Diego and NETROLOGIC Inc., San Diego, CA, USA

Conference Title: Image Storage and Retrieval Systems

Conference Location: San Jose, CA, USA Conference Date: 19920213

Sponsor: SPIE - Int Soc for Opt Engineering, Bellingham, WA, USA

E.I. Conference No.: 16468

Source: Proceedings of SPIE - The International Society for Optical Engineering v 1662. Publ by Int Soc for Optical Engineering, Bellingham, WA, USA. p 244-255

Publication Year: 1992

CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-0816-6

Language: English

Document Type: PA; (Conference Paper) Treatment: X; (Experimental)

Journal Announcement: 9208

Abstract: The coding, storage, and reconstruction of images is a major concern in the application of computer technology to technical and scientific problems. In such applications it is highly desirable to reduce the storage and transmission requirements for image data: An image can be coded compactly when it is possible to exploit self similar redundancy in the image. Our research has focused on the development of a 'fractal' method for compressing image data. Our approach to image compression, similar to Jacquin, is to tessellate the image with a tiling which varies with the local image complexity, and to check for self similarity among the tiles. Self similarities are coded as systems of affine transformations which can be stored far more compactly than the original image. This method is inherently lossy, since the self similarities are never exact. We have tested our encoding scheme on a variety of test images, gaining good compression ratios. At high compression ratios, the scheme yields better signal to noise ratios than are reported for other techniques. Our scheme is versatile in that it allows a trade-off between compression, reconstructed image fidelity and encoding time. Our methods are computationally intensive but are feasible for non-real time applications on workstations or main frame computers. We are currently studying applications such as multimedia systems and CD-ROM mass storage systems. The algorithms can be accelerated considerably by dedicated hardware for real time requirements. Fractal compression is a promising approach to image compression. Within a very short development time, fractal techniques have yielded results which rival the best examples of data compression afforded by other methods. Although fractal encoding of images is complex and may require specialized hardware for real time applications, the decoding process can be widely utilized because it is simple, fast, and suitable for software implementation. Thus, it can be run on workstations or personal computers without special requirements. This report contains a description and motivation of the encoding algorithm, a description of a new decoding algorithm, results, comparison with results in the literature, and a discussion of generalizations to the algorithm. 20 refs.

Descriptors: *IMAGE PROCESSING--*Image Coding; CODES, SYMBOLIC--Encoding; IMAGE STORAGE, OPTICAL; IMAGE PROCESSING--Reconstruction; COMPUTER PROGRAMMING--Algorithms; DATA STORAGE, OPTICAL--Disk

Identifiers: FRACTAL IMAGE COMPRESSION; MASS STORAGE; AFFINE TRANSFORMATIONS; CD-ROM

Classification Codes:

723 (Computer Software); 741 (Optics & Optical Devices)

72 (COMPUTERS & DATA PROCESSING); 74 (OPTICAL TECHNOLOGY)

13/5/6 (Item 1 from file: 103)

DIALOG(R)File 103:Energy SciTec

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02992334 NTS-91-007821; EDB-91-025957; ERA-16-009271

Title: CD-ROM (compact disc-read only memory): A delivery medium for CBT (computer-based training)

Author(s)/Editor(s): Luettggen, A.L.; Houghton, F.K.; Andrews, A.E.

Corporate Source: Los Alamos National Lab., NM (USA) (Code: 9512470)

Sponsoring Organization: DOE/AD;

Conference Title: TITE '91: 9th annual technology and innovations in training and education conference

Conference Location: San Antonio, TX (USA) **Conference Date:** 11-15 Mar 1991

Publication Date: 1991

(20 p)

Report Number(s): LA-90-3784 CONF-910371--2
Order Number: DE91004831
Contract Number (DOE): W-7405-ENG-36
Document Type: Report; Conference Literature
Language: In English
Journal Announcement: EDB9104
Availability: OSTI; NTIS; GPO Dep.
Distribution: (Report):0 (MF):4 MN-905
Subfile: ERA (Energy Research Abstracts); ETD (Energy Technology Data Exchange); NTS (NTIS). TIC (Technical Information Center)
US DOE Project/NonDOE Project: P
Country of Origin: United States
Country of Publication: United States
Abstract: Computer-based training (CBT) development has evolved from electronic page turners to a sophisticated instructional environment. The use of numerous large image files, large digital audio files, and complex computer-generated graphics files places great demands on a system's capacity for binary storage (disk space). One solution is the use of compact disc- **read only memory** (CD- **ROM**). The explosive growth of CD- **ROM** players in the marketplace makes CD- **ROM** a viable delivery medium for CBT. Recently, a CBT package for radiation protection technicians at Los Alamos National Laboratory was produced on CD- **ROM** . The course is delivered on a multimedia system consisting of the following: MS DOS-based computer, CD- **ROM** player, high-resolution video graphics array monitor, scanned color images with graphic overlays, digital audio, and mouse interface. This paper will allow the reader to assess the appropriateness of CD- **ROM** for a specific project, report on lessons learned from the RPT project, demonstrate that CD- **ROM** is within reach of the average CBT developer, and provide guidelines for successfully developing CD- **ROM** based CBT. This paper can serve as a basic primer on how to adapt CD- **ROM** as a CBT medium. Some of the technical aspects that are discussed are listed here: CD- **ROM** basics for CBT development, availability of low-cost development environments, file organization, optimization of CD- **ROM** response times, effective use of digital audio and still frame graphics, and animation with CD- **ROM** .
Major Descriptors: *MEMORY DEVICES -- COMPUTER-AIDED INSTRUCTION
Descriptors: COMPUTER ARCHITECTURE; COMPUTER GRAPHICS; COMPUTER OUTPUT DEVICES; COST; TRAINING
Broader Terms: TRAINING
Subject Categories: 990200* -- Mathematics & Computers

13/5/7 (Item 1 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.
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00462463 97PI06-306

ZDS Performance 200x

Poor, Alfred

PC Magazine , June 24, 1997 , v16 n12 p168, 1 Page(s)

ISSN: 0888-8507

Company Name: Zenith Data Systems

Product Name: ZDS Performance 200x

Languages: English

Document Type: Hardware Review

Grade (of Product Reviewed): B

Geographic Location: United States

Presents a favorable review of the ZDS Performance 200x (\$2,899), a 200MHz Pentium MMX-based system from Zenith Data Systems Direct of Boxborough, MA (800, 508). The system reviewed included 32MB EDO DRAM, 512K pipelined-burst **cache** , 2.9GB EIDE hard disk, graphics adapter with 4MB VRAM, 12X CD- **ROM** drive, 33.6/14.4 Kbps data/fax modem, sound card, speakers with subwoofer, and 17-inch monitor. Zenith will substitute a 10/100 Fast Ethernet card for the modem at no charge. Expandability of the system is reasonable as it has four bus slots and three drive bays free. The monitor can accept two input signals using a standard sub-D connector

and separate BNC coaxial cable, which provides separate video **composite** capability for **graphic** designers, but the video card must be upgraded for this. Benchmark test performance was average. Says that it offers "good performance, a terrific sound system, and flexibility." Includes one photo. (djd)

Descriptors: Microcomputer System; Pentium; Hardware Review; MMX; Benchmark Testing; Video Processing

Identifiers: ZDS Performance 200x; Zenith Data Systems

?t sl3/5,k/17-18,32

13/5,K/17 (Item 9 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01703634 SUPPLIER NUMBER: 16276536 (USE FORMAT 7 OR 9 FOR FULL TEXT)

3-D graphics take shape. (3-D rendering acceleration technology for graphics and video boards)

Biedny, David

Windows Sources, v2, n11, p34(1)

Nov, 1994

ISSN: 1065-9641

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 463

LINE COUNT: 00035

ABSTRACT: Recent advances in 3-D rendering acceleration will soon be available on graphics and video boards. PCI board vendors plan to add polygon calculation **processors** to PCI boards in the second half of 1995. These polygon **processors** manipulate numerous polygons, which are the primary components of 3-D graphics scenes. The faster **processors** will bring **workstation** -caliber performance to PCs for less than \$500 and are expected to give PC -based CD- **ROM** games a boost in entertainment and visual value. Another beneficiary of the rendering improvements will be 3-D image and document storage systems, which will be able to process and **store complex images** more rapidly and with better results. Spreadsheets may also gain 3-D capabilities as a means of easily visualizing numbers and relationships.

DESCRIPTORS: Rendering; Three-Dimensional Graphics; Performance Improvement; Graphics Accelerator/Display Board; Video Boards/Cards; Trends

SIC CODES: 3571 Electronic computers

FILE SEGMENT: CD File 275

...ABSTRACT: will soon be available on graphics and video boards. PCI board vendors plan to add polygon calculation **processors** to PCI boards in the second half of 1995. These polygon **processors** manipulate numerous polygons, which are the primary components of 3-D graphics scenes. The faster **processors** will bring **workstation** -caliber performance to PCs for less than \$500 and are expected to give PC -based CD- **ROM** games a boost in entertainment and visual value. Another beneficiary of the rendering improvements will be 3-D image and document storage systems, which will be able to process and **store complex images** more rapidly and with better results. Spreadsheets may also gain 3-D capabilities as a means of...

13/5,K/18 (Item 10 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01701241 SUPPLIER NUMBER: 16184350 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Videotex: a Japanese lesson. (Captain videotex services) (Asia-Pacific Viewpoint)

Lehmannn, Yves

Telecommunications, v28, n7, p53(2)

July, 1994

ISSN: 0278-4831

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1628

LINE COUNT: 00131

ABSTRACT: Japan's Captain videotex services are regarded as a failure.

Captain services were introduced in 1984, and Nippon Telephone and Telegraph (NTT) hoped to have 1 million subscribers within three years. However, in Mar 1992, the number of customers was only 120,000. Various reasons for Captain's poor showing are cited. For example, it was confused with TV because its services were often accessed through television sets, but Captain compares badly with regular TV broadcasts because of its lack of sound and life-like moving images. NTT thinks it is too late for Captain but is considering use of the videotex network for low-cost, two-way communications. So far, except for France's Minitel, there are no successful videotex services.

SPECIAL FEATURES: illustration; table

COMPANY NAMES: Nippon Denshin Denwa KK--Planning

GEOGRAPHIC CODES: AEJA

GEOGRAPHIC NAMES: Japan

DESCRIPTORS: Videotex; Telecommunications Service; Failure

PRODUCT/INDUSTRY NAMES: 4811000 (Telephone Communications); 4810000 (Telecommunications)

SIC CODES: 4810 Telephone Communication

FILE SEGMENT: TI File 148

... technological evolution in other types of devices, which have rendered the terminals and the protocol practically obsolete. ROM was still expensive in 1980, and so Japanese characters could not be stored in the terminal. NTT therefore designed a system in which images, such as Chinese character "graphics" could...

...modem (at the time, 4800 bps), this made transmission time exceedingly long (up to seven minutes for complex images). The slowness of the service has irritated many users.

Captain can send graphic patterns and images. Therefore...

13/5,K/32 (Item 1 from file: 647)

DIALOG(R) File 647: CMP Computer Fulltext

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01134303 CMP ACCESSION NUMBER: IWK19970804S0043

Build The Perfect LAN - Products from Network Tools, ImageNet, and NetSuite help take the pain out of designing networks

Logan Harbaugh

INFORMATIONWEEK, 1997, n 642, PG60

PUBLICATION DATE: 970804

JOURNAL CODE: IWK LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: InformationWeek Labs

WORD COUNT: 2023

TEXT:

Designing a network isn't as simple as it used to be. Neither are the tools. Network design tools have evolved from little more than basic diagramming software into products that search a network to discover its components, capture network performance statistics, allow simulations of changes in the network, and verify the viability of new network designs. - I recently took a look at three computer-aided network design tools: the beta test version of Caliper 2.0 from Network Tools, Cane from ImageNet, and NetSuite Advanced Professional Design 2.0 from NetSuite Development. - These three programs are not necessarily competitors-their differences are nearly as great as their similarities. Caliper begins a network design with a hierarchical outline of the intended logical structure of the network-a visually oriented drawing is produced only after the fact, and by a separate program, Visio, that can be purchased with Caliper or separately. NetSuite and Cane are similar in basic function, but each has features the other does not, which will appeal to different sorts of network managers and designers; Cane also costs a great deal more than NetSuite. - The programs do have a number of things in common. All have libraries of network components, such as hubs, routers, PCs, and so forth. They differ in the information provided about these components. For instance, Caliper has more complete pricing information as it is

sales-oriented (although given the flux in pricing and availability of network components, this may be of limited usefulness without a subscription to updates). They all provide some level of design verification that helps prevent unworkable network designs or designs with pieces missing. And all three produce bills of material (BOM)

... a blank page and add icons for the various network devices.

Cane is an extremely capable but **complex** program. **ImageNet** recommends training for all Cane customers, and the \$1,500 one-day session (\$1,700 if it...

...small fraction is installed by default. Additional devices must be imported into the database from the CD- **ROM** . ImageNet also has an available subscription service to **keep** the database current: A one-year free subscription is started when the software is registered.

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[Preferences](#)

\"as\" is a very common word and was not included in your search. [\[details\]](#)

Web

Results 1 - 10 of about 313 for **\"facial image \" as user id password biometric**. (0.78 seconds)

Tip: Looking for pictures? Try [Google Images](#)

Updates

... iris, retina, handprints, footprints, blood vessels in the wrist, and **facial image**. ...

using IT personnel to maintain and update **user ID** and **password** systems. ...

[www.glencoe.com/norton/n-instructor-/updates/1998/123198-7.html](#) - 13k - [Cached](#) - [Similar pages](#)

HUMAN/COMPUTER INTERFACE SECURITY ISSUES To build secure ...

... **user** has a measurable hand; a **facial image** scan requires ... unique, so one size fits

all; **Password** protection of ... capable of running with a **user ID** other than ...

[www.nist.gov/itl/lab/bulletns/archives/bul](#) - 11k - [Cached](#) - [Similar pages](#)

Video Tracking Technologies

... recognition analyzes facial characteristics / **facial image** of a ... a person and therefore

rejects a legitimate **user**. ... dynamics, particularly login-id and **password** ...

[www.mediaeater.com/cameras/face.html](#) - 20k - [Cached](#) - [Similar pages](#)

[PPT] bioXS by

File Format: Microsoft Powerpoint 97 - [View as HTML](#)

... Targeted at physicians. Currently support RF Ideas Air **ID** LT, Air **ID**, **HID** prox card. ...

2. A. check WS enabled? B. query **user** enrollments. 3. ... **Facial Image** Recognition ...

[download.bioxs.nl/brochures/studies/wegmetdewachtwoorden.ppt](#) - [Similar pages](#)

The new face of security

... a personal identification number or other **user ID**, and the ... from the stored image,

and the **facial image** cannot be ... recognition with a PIN, a **password** or another ...

[www.fcw.com/fcw/articles/2002/0304/tec-face-03-04-02.asp](#) - 48k - [Cached](#) - [Similar pages](#)

Network Security 1998: Biometric identification

... The complete **facial image** is usually captured and a number of ... be special smart card

carried by **user** itself, to ... [1] Agaron L, \"Show me some **ID** - Biometrics is ...

[www.tml.hut.fi/Opinnot/Tik-110.501/1998/papers/12biometric/biometric.htm](#) - 45k - Oct 13, 2004 -

[Cached](#) - [Similar pages](#)

Biometric Consortium: HAAP-103

... finger image identifier record; Facial Recognition - **facial image** or feature data ...

The Least Significant NIBBLE indicates the Module **ID**. 5.2 **User** Interface. ...

[biometrics.org/REPORTS/HAAP-103](#) - 101k - [Cached](#) - [Similar pages](#)

Facial-Recognition Solutions Roundup

... along with the images of the **user** or suspected ... It separates the **facial image** from

the background for easy ... for verification, offering a single **ID** for signing on ...

[www.biometritech.com/features/roundup051502.htm](#) - 58k - [Cached](#) - [Similar pages](#)

[PDF] Biometrics: Face Recognition Technology

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... the **user** has (ie Tokens, **ID** Cards, smartcard ... Authentication involves the **user** entering

some ... images representing distinctive characteristics of a **facial image**. ...

www.giac.org/practical/gsec/Veronica_Henry_GSEC.pdf - [Similar pages](#)

[PDF] **Biometric FAQ**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... a template derived from a single **facial image** can be ... Biometrics can be used anywhere
keys, ID cards, PINs or ... of such a system is greater **user** convenience - not ...

www.avalanche.za.com/1_biometri_images/IBG%20FAQ.pdf - [Similar pages](#)

Goooooooooooooogle ►

Result Page: 1 2 3 4 5 6 7 8 9 10 **Next**

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"facial image " as user id password **Search**

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[Preferences](#)

"as" is a very common word and was not included in your search. [[details](#)]

Web

Results 1 - 10 of about 419 for **"facial image " as user id password**. (0.86 seconds)

Tip: Looking for pictures? Try [Google Images](#)

Updates

... iris, retina, handprints, footprints, blood vessels in the wrist, and **facial image**. ...
using IT personnel to maintain and update **user ID** and **password** systems. ...
www.glencoe.com/norton/n-instructor-/updates/1998/123198-7.html - 13k - [Cached](#) - [Similar pages](#)

What is smartcard technology? What is Authentication Token? What ...

... USB Tokens, fingerprint, iris or retina of the eye, **facial image**, etc ... and Intranet
web-sites permit a **user** to enter a **User ID** and **password** (credentials) to ...
www.360degreeweb.com/technology.html - 42k - [Cached](#) - [Similar pages](#)

HUMAN/COMPUTER INTERFACE SECURITY ISSUES To build secure ...

... **user** has a measurable hand; - a **facial image** scan requires ... unique, so one size fits
all; - **Password** protection of ... capable of running with a **user ID** other than ...
csrc.nist.gov/publications/nistbul/csl96-02.txt - 10k - [Cached](#) - [Similar pages](#)

Video Tracking Technologies

... recognition analyzes facial characteristics / **facial image** of a ... a person and therefore
rejects a legitimate **user**. ... dynamics, particularly login-id and **password** ...
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